

# ANNUAL SITE INSPECTION REPORT

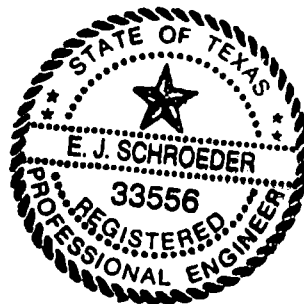
JULY 2000

## BAILEY SUPERFUND SITE

Prepared by:



SEPTEMBER 2000



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33556  
P.E. Number

9/25/00  
Date

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## **SECTION 1**

### **1.0 INTRODUCTION**

The annual inspection of the Bailey Superfund Site was conducted on July 10, 2000 by Allison Merz of Parsons Engineering Science, Inc. (Parsons ES). Ms. Merz has completed numerous other cap inspections at other RCRA and Superfund sites and has a thorough knowledge of the site background and understanding of the implemented remedy. The inspection was conducted in accordance with the Final Inspection, Maintenance, and Monitoring Plan (prepared by Parsons ES and GeoSyntec, September 1997).

An inspection check list was developed to aid in the inspection of the site and is included in Appendix A. The check list was completed as the entire site was walked and observations were made. Any areas of concern that were observed during the inspection were noted and located on a site map that is included in Appendix B. A summary of the inspection and its findings is presented in Section 2.

## **SECTION 2**

### **2.0 INSPECTION SUMMARY**

Allison Merz of Parsons ES, the Bailey Site Settlers Committee's (BSSC) authorized representative, conducted a visual inspection of the site on July 10, 2000.

#### **2.1 Grounds Inspection**

The North and East Dike areas were inspected by traversing the surface area of each dike and thoroughly looking for signs of problems that would affect the integrity of the landfill cap system. The entire site was mowed approximately one week prior to the inspection. In general, the caps and dikes appear to be in good condition. The grass also was generally found to be in good condition. There are a few areas where the grass was stressed due to the dry conditions experienced in the area during the previous two months.

The landfill caps were inspected for signs of erosion, exposure, differential settlement, and ponding. The condition of the surface vegetation and the gas vents were also noted. Areas of stressed vegetation are noted on the map in Appendix B. No grass needs to be re-seeded. Some woody plants are growing along the outer edge of both cap areas as illustrated on the map. These will be removed to prevent them from spreading onto the cap slopes and caps themselves. No erosion along the dike slopes and caps is evident. There are also some signs of minor soil desiccation on the East Dike Cap near the southern end (see map in Appendix B).

The North and East dikes and caps were also inspected for differential settlement. Rainfall for the year has been below average and no signs of significant settlement are evident. Both caps appear to be level, relatively even, and stable. No areas of ponding were evident.

#### **2.2 Dike Breaches and Drainage Pipes**

The dike breach in the North Marsh perimeter dike was inspected and found to be in good condition, allowing free flow of tidal waters. The drainage pipes in the former laydown area and at the end of the East Dike were found to be in good condition with no obstructions.

#### **2.3 Fence and Sign Inspection**

The fencing at the site was inspected and found to be in good condition. The gates and locks were also inspected and found to be in good condition, except that the chain and lock around the gate at the southwest side of the East Dike Cap are not wrapped around the gateposts. Entrance is possible through this gate. The site owner, Mr. Rodney Townsend, was advised of this condition and the need for correction. The signs located around the perimeter of the site are generally in good condition. One of the signs on the

September 15, 2000

gate for the access bridge is showing signs of deterioration. There are two signs on this gate and the other one is in good condition.

#### **2.4 Site Access Bridge Inspection**

The access bridge to the site was inspected and found to be in good condition. The bridge decking, hand rails, approaches, and steel structure also appear to be in good condition. The offsite road at the northeast corner of the bridge is showing the initial signs of stormwater erosion. This condition should be monitored during future inspections.

#### **2.5 Road Inspection**

The access roads for the North and East Dike Caps were inspected for signs of rutting, potholes, erosion, and accumulation of silt. As mentioned in Section 2.4, the off-site road is showing signs of stormwater erosion. All on-site roads were found to be in good condition.

#### **2.6 Other Observations**

No other problems were noted during the inspection.

### **SECTION 3**

#### **3.0 SUMMARY OF PROBLEM AREAS AND RECOMMENDED ACTION**

The Bailey Superfund Site was found to be in generally good condition during the July 2000 Annual Site Inspection. A few areas of concern were noted and are detailed below:

- Some vegetation on caps was stressed due to the lack of rainfall. These areas should recover with rainfall. Therefore, no action is required;
- Minor soil desiccation was observed on East Dike Cap. This condition will recover with rainfall. No action is required;
- Woody plants were noted growing along the edges of both caps. These plants will be removed to prevent further propagation;
- The chain and lock on the southern gate of East Dike Cap are not installed properly. The lock will be replaced with one identical to the main gate and the chain will be secured around both gateposts to prevent entrance. A verbal request to Rodney Townsend was made at the time of the inspection to complete this task and a written request was made in September 2000; and
- The off-site road near northeast corner of access bridge is showing the initial signs of stormwater erosion. Recommended action is to monitor condition carefully.

**APPENDIX A**  
**SITE INSPECTION CHECK LIST**



# BAILEY SITE INSPECTION CHECK LIST

Inspection Date: 07/10/2000  
Inspection Time: 10 am  
Name of Inspector: Allison Merz  
Weather Conditions: partly sunny, temps in 90s °F, some scattered showers

## Ground Inspections

Condition of Vegetation:	Grass Height	<u>2" - 6"</u>
	Color	<u>yellow-green</u>
	Fullness	<u>OK - thin in some areas</u>
	Areas of Concern:	<input checked="" type="radio"/> Yes <input type="radio"/> No (If Yes, Detail on Map)
Signs of Erosion:	Yes <input type="radio"/> No <input checked="" type="radio"/>	(If Yes, detail location on map and note average depth and width)
Exposed Geosynthetics:	Yes <input type="radio"/> No <input checked="" type="radio"/>	(If Yes, provide location on map and note if it's the geocomposite drainage layer, 60 mil HDPE liner, or geosynthetic clay liner.)
Signs of Differential Settlement:	Yes <input type="radio"/> No <input checked="" type="radio"/>	(If Yes, provide location on map noting estimated depth and width)
Ponding Greater than 2" in Depth:	Yes <input type="radio"/> No <input checked="" type="radio"/>	(If Yes, provide location on map, noting depth)
Evidence of Prolonged Ponding:	Yes <input type="radio"/> No <input checked="" type="radio"/>	
Estimated date of last rain event:	<u>2 months prior to inspection.</u> <u>conditions are very dry.</u>	
Gas Vents:		
Condition of Barrier:	<u>Good</u>	
Condition of Piping:	<u>Good</u>	
Screens Intact:	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Riser Pipe Plumb:	<input checked="" type="radio"/> Yes <input type="radio"/> No	

# BAILEY SITE INSPECTION CHECK LIST

## Condition of Dike Breaches and Drainage Pipes

Verify that each allows free drainage:

Pond A culvert at South end of East Dike:	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Site Entrance Area (Non-capped Area):	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Perimeter Dike Breach in Pond A:	Eliminated by owner with EPA approval.	
Perimeter Dike Breach in North Dike:	<input checked="" type="radio"/> Yes	<input type="radio"/> No

If the answer was No to any of the above, describe the obstruction:

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## Fence and Sign Inspection

### Chain Link Fencing

Signs of unauthorized entry:	Yes	<input checked="" type="radio"/> No
Fence Damage:	Yes	<input checked="" type="radio"/> No
Corrosion:	Yes	<input checked="" type="radio"/> No
Barb Wire Damage:	Yes	<input checked="" type="radio"/> No

Gates & Locks in good condition:	Yes	<input checked="" type="radio"/> No	See below.
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### Overhang Extensions

Signs of unauthorized entry:	Yes	<input checked="" type="radio"/> No
Signs of damage:	Yes	<input checked="" type="radio"/> No

### Signs

Verified all signs:	<input checked="" type="radio"/> Yes	<input type="radio"/> No	See below.
Signs on all gates:	<input checked="" type="radio"/> Yes	<input type="radio"/> No	

Provide location of any damage on the map. Describe below any damage to the fence or signs:

- 1) Chain on southern gate of eastern cap is not wrapped around posts. Entry can be made. Lock should be the same as NE gate lock.
- 2) 1 of 2 signs on the NE gate is showing signs of deterioration.

PARSONS ENGINEERING SCIENCE

## BAILEY SITE INSPECTION CHECK LIST

### Site Access Bridge

Are the following in good condition:

Wood Decking:

☒ Yes

☐ No

Hand Rails:

☒ Yes

☐ No

Approaches:

☒ Yes

☒ No

See below.

Bridge Steel Structure:

☒ Yes

☐ No

If No, describe the observed condition:

Road at NE corner of access bridge is eroded from stormwater. Recommend watching this closely for further erosion.

### Road Inspection

Rutting

☐ Yes

☒ No

(If yes to any, provide location on map)

Potholes

☐ Yes

☒ No

Erosion Channeling

☐ Yes

☒ No

Accumulation of Silt

☐ Yes

☒ No

### Other General Site Observations:

- 1) Vegetation/grass is stressed due to lack of rainfall. This is normal for Texas summers. No action needed.
- 2) Some signs of soil desiccation on eastern cap, as evidenced by "cracks".
- 3) Some woody plants are growing along outer edge of eastern cap (see map). These should be removed or mowed down to prevent them from growing on sides and top of cap.

## BAILEY SITE INSPECTION CHECK LIST

### Summary of Problem Areas Identified

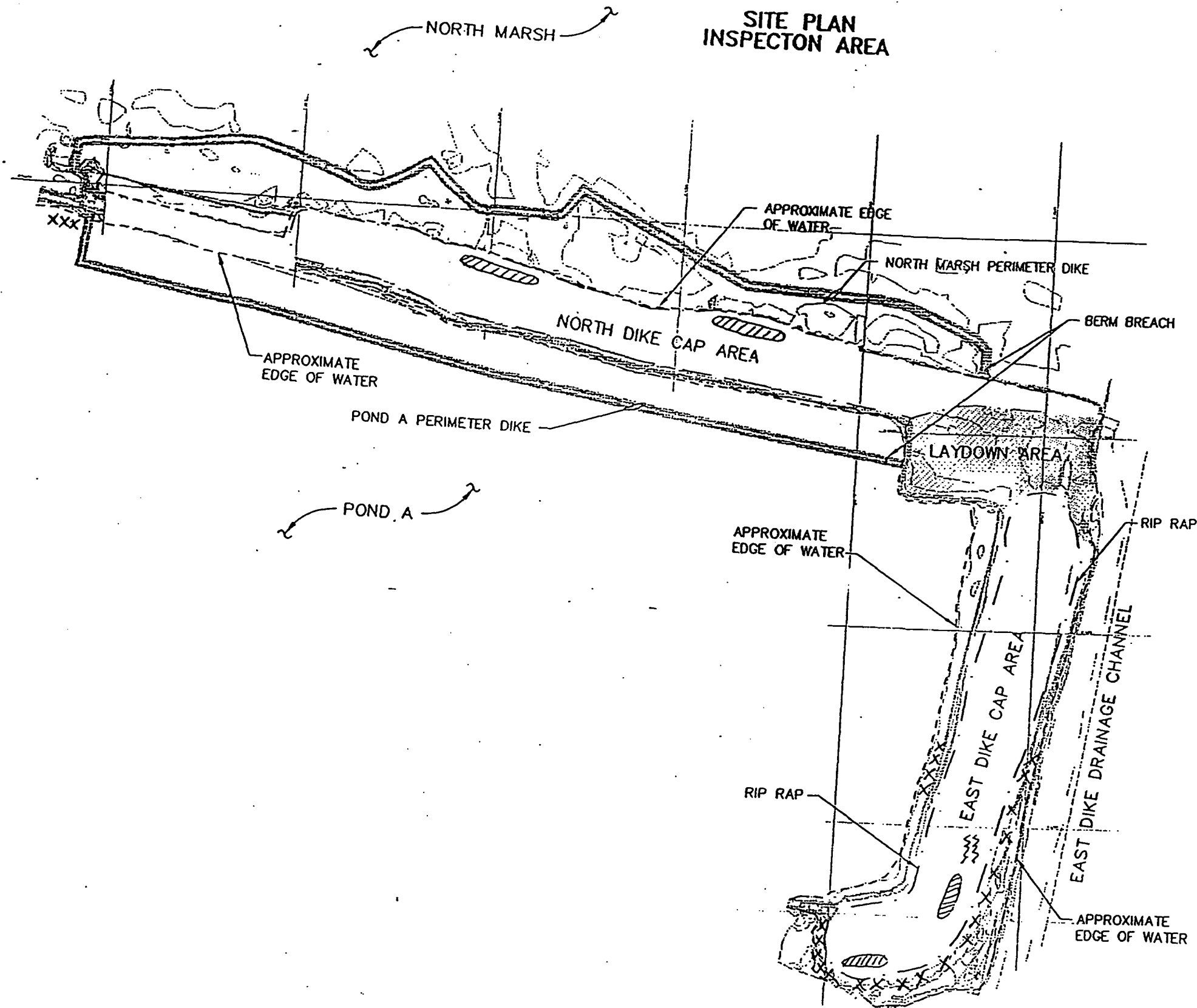
- Stressed vegetation.
- Soil desiccation evidenced on eastern cap.
- Woody plants growing along outer edge of eastern cap.
- Chain and lock not properly installed for gate at SW corner of eastern cap.
- Road at NE corner at access bridge is slowly being eroded by stormwater.

  
Inspector's Signature

07/10/2000  
Date

**APPENDIX B**

**SITE MAP**

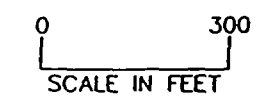


**NOTES:**

1. DRAWING BASED ON PREVIOUS SITE TOPOGRAPHIC INFORMATION AND DESIGN DRAWINGS. DRAWING IS NOT BASED ON FINAL AS-BUILT DATA.
2. LOCATION OF EDGE OF WATER SHOWN IS THE LOCATION AT THE TIME OF SURVEY. WATER LEVELS SUBJECT TO TIDAL VARIATIONS. AVERAGE TIDE ELEVATIONS ARE: LOW TIDE - -2.0 FEET (MSL) AND HIGH TIDE +1.0 FEET (MSL). TIDE ELEVATIONS ARE SUBJECT TO VARIATION DEPENDING ON SEASON AND LOCAL WEATHER CONDITIONS.
3. RIPRAP LOCATED ON ALL SLOPES.
4. INSPECTION AREA TO INCLUDE, AS A MINIMUM,
  - NORTH DIKE CAP AREA
  - EAST DIKE CAP AREA
  - ALL AREAS OF RIP RAP
  - VISUAL OBSERVATION OF PERIMETER DIKES
  - ACCESS BRIDGE
  - SITE FENCING (FIGURE 2.2)

**LEGEND - GENERAL**

- EXISTING CONTOUR (FEET)
- - - ANCHOR TRENCH
- [Hatched Box] APPROXIMATE LIMIT OF GRAVEL SURFACING
- XXXX WOODY PLANTS
- [Hatched Oval] STRESSED VEGETATION
- [Wavy Line] DESICATED SOIL



**GeoSYNTEC CONSULTANTS**  
ATLANTA, GA

PROJECT NO. GE3913-620	FIGURE NO. 2.1
DOCUMENT NO.	FILE NO. 3913F004